

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1-18. (Cancelled).

19. (Original) A primary lithium battery comprising:

a cathode including an irreversible high capacity material and a reversible low capacity material;
an anode including lithium; and
a separator between the cathode and the anode.

20. (Original) The battery of claim 18, wherein the reversible low capacity material includes a lithiated manganese dioxide.

21. (Original) The battery of claim 19, wherein the lithiated manganese dioxide includes an electrolytic manganese dioxide or a chemical manganese dioxide.

22. (Currently Amended). The battery of claim [[19]]20, wherein the battery delivers a capacity at least 40% greater than the sum of the expected capacities of the lithiated manganese dioxide and the irreversible high capacity material under high drain conditions.

23. (Currently Amended) The battery of claim [[19]]20, wherein the irreversible high capacity material includes a carbon fluoride.

24. (Original) The battery of claim 19, wherein the irreversible high capacity material includes a carbon fluoride.

25. (Original) The battery of claim 23, wherein the lithiated manganese dioxide and the carbon fluoride are blended.

26. (Original) The battery of claim 23, wherein the carbon fluoride is CF_x .
27. (Original) The battery of claim 23, wherein the lithiated manganese dioxide and the carbon fluoride are present in a ratio in the range of 1:99 to 99:1 by weight.
28. (Original) The battery of claim 23, wherein the lithiated manganese dioxide and the carbon fluoride are present in a ratio in the range of 5:95 to 95:5 by weight.
29. (Original) The battery of claim 23, wherein the lithiated manganese dioxide and the carbon fluoride are present in a ratio in the range of 25:75 to 75:25 by weight.
30. (Original) The battery of claim 23, wherein the lithiated manganese dioxide and the carbon fluoride are present in a ratio in the range of 20:80 to 80:20 by weight.
31. (Original) The battery of claim 23, further comprising an electrolyte including an organic solvent.
32. (Original) The battery of claim 23, wherein the lithiated manganese dioxide includes a low surface area lithiated manganese dioxide.
33. (Original) The battery of claim 30, wherein the low surface area lithiated manganese dioxide has a specific surface area between 0.50 and 20.0 m^2/g .
34. (Original) The battery of claim 30, wherein the low surface area lithiated manganese dioxide has a specific surface area between 10.0 and 15.0 m^2/g .
35. (Original) The battery of claim 30, wherein the low surface area lithiated manganese dioxide, when mixed with an electrolyte including an organic solvent and a lithium salt, produces a gas pressure of no more than 16 PSI after 100 hours at 70 °C.

36. (Original) The battery of claim 30, wherein the lithiated manganese dioxide and the carbon fluoride are present in a ratio in the range of 1:99 to 99:1 by weight.

37. (Original) The battery of claim 30, wherein the lithiated manganese dioxide and the carbon fluoride are present in a ratio in the range of 5:95 to 95:5 by weight.

38. (Original) The battery of claim 30, wherein the lithiated manganese dioxide and the carbon fluoride are present in a ratio in the range of 25:75 to 75:25 by weight.

39. (Original) The battery of claim 30, wherein the lithiated manganese dioxide and the carbon fluoride are present in a ratio in the range of 20:80 to 80:20 by weight.

40. (Original) The battery of claim 30, further comprising an electrolyte including an organic solvent.

41. (Original) A primary lithium battery comprising:

- a cathode including a low surface area lithiated manganese dioxide;
- an anode including lithium; and
- a separator between the cathode and the anode.

42. (Original) The battery of claim 38, wherein the low surface area lithiated manganese dioxide has a specific surface area between 0.50 and 20.0 m²/g.

43. (Original) The battery of claim 38, wherein the low surface area lithiated manganese dioxide has a specific surface area between 10.0 and 15.0 m²/g.

44. (Original) The battery of claim 38, further comprising an electrolyte including an organic solvent.

45. (Original) The battery of claim 38, wherein the low surface area lithiated manganese dioxide, when mixed with an electrolyte including an organic solvent and a lithium salt, produces a gas pressure of no more than 16 PSI after 100 hours at 70 °C.

46-60. (Cancelled).